Index of Claims

| Application/Control N |           | Applicant(s)/Patent under Reexamination |  |  |  |  |  |  |  |  |  |
|-----------------------|-----------|-----------------------------------------|--|--|--|--|--|--|--|--|--|
| 10/606,768            | HA ET AL. |                                         |  |  |  |  |  |  |  |  |  |
| Examiner              | Art Unit  |                                         |  |  |  |  |  |  |  |  |  |
| Chuc D. Tran          | 2821      |                                         |  |  |  |  |  |  |  |  |  |

| , | Rejected |   |   | (Through numeral)<br>Cancelled |
|---|----------|---|---|--------------------------------|
|   | Allowed  | i | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Ī          | Cla           | im       |          |          |          | D        | ate      |          |    |                 | Cla   | im       |                 |          |          | Da     | ate    |        |        |          | ि        | Cla      | im         |          |           |                      |                 | ate      | ,        |          | _         | _ |
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| Ī          |               |          |          | T        | Т        | П        |          | ."       |    |                 |       |          |                 |          |          |        |        |        | П      | ₩        |          |          |            |          |           | $\Box$               |                 | $\neg$   |          | П        | $\exists$ | _ |
| ĺ          | <u>a</u>      | Original | 2/3/05   |          |          |          |          |          |    |                 | a     | Original |                 |          |          |        |        | ł      | 1 1    |          |          | 펼        | Original   |          |           |                      |                 | ı        |          | - 1      | - 1       |   |
|            | Final         | rig      | 23       |          |          |          |          |          |    |                 | Final | rig      |                 |          |          |        |        | İ      |        |          |          | Final    | rig        |          |           |                      |                 |          |          | - 1      |           |   |
|            |               | 0        | ``       |          |          |          |          |          |    |                 |       | 0        | ll              |          |          | - ]    |        |        |        |          |          |          | 0          |          |           |                      |                 |          |          | - 1      |           |   |
| <b>、</b> ┟ | 1             | 1        | =        |          | 十        | 7        | $\neg$   | $\top$   | 1  | T               |       | 51       |                 | $\neg$   | 一        | _      | $\top$ | 1      | $\Box$ |          | ŀ        |          | 101        |          |           | П                    |                 | ヿ        | T        | ┪        | ヿ         | _ |
| 7          | $\overline{}$ | 2        | -        | $\dashv$ | ┪        | 7        | 十        |          | 1  | T               |       | 52       | М               |          | $\neg$   | ╅      | 7      |        | Ħ      |          | ŀ        |          | 102        |          |           | П                    |                 | T        |          | 寸        | ヿ         | _ |
| t          | 2             | 3        | =        | $\neg$   | 7        | 1        | 1        | 1        | 1  | T               |       | 53       | М               | $\neg$   | 十        | _      | +      |        | T      |          | ŀ        | 1        | 103        |          |           | $\Box$               |                 | ╛        | $\neg$   | $\neg$   | ヿ         | _ |
| Ì          | 3             | 4        | =        | $\neg$   | $\neg$   | 7        | 寸        | $\dashv$ | 1  | T               |       | 54       | Н               | $\neg$   | ┰        | _      | _      | -      | П      |          | ľ        |          | 104        |          |           |                      |                 | 一        |          | 7        | 7         | _ |
| Ì          | 4             | 5        | =        | 一        | -        | 十        | _        |          | _  | T               |       | 55       | Н               | $\neg$   |          | $\top$ | T      | 1      | T      |          | ŀ        |          | 105        |          |           |                      |                 | ┪        | $\dashv$ | ┪        | ヿ         | — |
| Ì          | 5             | 6        | =        | _        | $\dashv$ | 1        | 1        | 十        | 1  | 1               |       | 56       | П               | $\neg$   | _        | _      |        |        | $\Box$ |          | ŀ        |          | 106        |          |           |                      |                 | $\neg$   | T        | $\neg$   | ヿ         |   |
| t          | 6             | 7        | =        | _        | 十        | 7        | _        |          | 1  | T               |       | 57       | Ħ               |          |          | +      | T      | 1      | Ħ      | 933      | ľ        |          | 107        |          |           |                      |                 | ┪        | T        | ┪        | ヿ         | _ |
| ŀ          | 7             | 8        | =        | 1        | 十        | 1        | 1        | $\top$   | +  |                 |       | 58       | М               |          | $\neg$   | $\top$ | +      | $\top$ | $\Box$ |          | ŀ        |          | 108        | $\neg$   |           | $\Box$               |                 | ┪        | $\neg$   | ┪        | $\dashv$  | _ |
| ŀ          | 8             | 9        | =        | $\neg$   | 十        | _        | 7        | $\top$   | +  |                 |       | 59       | Н               |          | $\neg$   | +      | +      | ┪      | 1 1    | -        | ŀ        |          | 109        |          |           |                      |                 | $\dashv$ | $\neg$   | $\dashv$ | 十         | — |
| ŀ          | 9             | 10       | =        | $\dashv$ | +        | $\dashv$ | $\dashv$ | $\top$   | +  | 1               |       | 60       | Н               |          |          | 十      | +      | _      | 1 1    |          | ŀ        |          | 110        |          |           |                      |                 | 一        | 一        | 十        | 十         |   |
| ŀ          | 10            | 11       | =        | -        | $\dashv$ | +        | +        | +        | +  |                 |       | 61       | H               |          | -        | +      | ╅      | +      | 1 1    | -        | ŀ        | -        | 111        | -        | -         | $\vdash$             |                 | $\dashv$ | $\dashv$ | ┪        | $\dashv$  | — |
| ŀ          | 11            | 12       | =        | $\dashv$ | $\dashv$ | +        | $\dashv$ | +        | +  | $\vdash$        |       | 62       | H               | $\dashv$ | $\dashv$ | +      | +      | +      | 1 1    | -        | ŀ        |          | 112        |          |           | H                    |                 | $\dashv$ |          | ┪        | $\dashv$  | _ |
| }          | 12            | 13       | =        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +  | $\vdash$        |       | 63       | Н               | $\vdash$ | $\dashv$ | +      | +      | +      | + +    | -        | ŀ        |          | 113        |          |           | $\vdash$             | $\vdash$        | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$  | — |
| ŀ          | 13            | 14       | =        |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +  | $\vdash$        |       | 64       | Н               | $\vdash$ | $\dashv$ | +      | +      | +      | ╁┼     | -10      | ₽        | $\dashv$ | 114        |          |           | $\vdash$             | $\vdash$        | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$  | — |
| 7          | <u>:</u>      | 15       | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +  | $\vdash$        |       | 65       | Н               | $\vdash$ | +        | +      | +      | +      | + +    | $\dashv$ | ŀ        |          | 115        |          | $\dashv$  | $\vdash$             | $\vdash$        |          | $\vdash$ | $\dashv$ | $\dashv$  | _ |
| ŀ          | 14            | 16       | <u> </u> | $\dashv$ | -        | +        | $\dashv$ | +        | +  | $\vdash$        |       | 66       | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | +      | -        | ŀ        |          | 116        |          | -         | $\vdash$             |                 | $\dashv$ |          | $\dashv$ | $\dashv$  | — |
| ŀ          | 15            | 17       | =        | -1       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +  | $\vdash$        |       | 67       | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | +      | -{::     | ŀ        |          | 117        |          | -         | $\vdash$             | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| ŀ          | 16            | 18       | =        |          | $\dashv$ | ┪        | $\dashv$ | +        | +  |                 |       | 68       | Н               | -        | -+       | +      | +      | -      | +      | -        | ŀ        |          | 118        | -        | -         | $\vdash$             |                 | $\neg$   |          | -        | $\dashv$  | _ |
| 1          | -             | 19       | -        | $\dashv$ | -        | +        | $\dashv$ | +        | +  | $\vdash$        |       | 69       | Н               |          | $\dashv$ | +      | +      | +-     | +      |          | ŀ        |          | 119        | -        | -         | -                    |                 |          |          | -+       | $\dashv$  |   |
| -          |               | 20       | Н        | -        | +        | +        | $\dashv$ | +        | +  | Н               |       | 70       | Н               |          | $\dashv$ | ┰      |        | ╌      | ╁┼     | 888      | ŀ        | -        | 120        | $\dashv$ |           | $\vdash$             |                 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| ŀ          |               | 21       | Н        |          | +        | +        | $\dashv$ | +        | +  | Н               |       | 71       |                 | -        | -        | +      | +      | +      | ╁      |          | ŀ        |          | 121        | -        |           | $\dashv$             | $\dashv$        |          |          | -        |           | _ |
| ŀ          |               | 22       | Н        | -        |          | 十        | $\dashv$ |          | -  | -               |       | 72       |                 |          |          | - -    | +      |        | ╂╾┼    |          | ⊦        |          | 122        |          |           | $\vdash$             | $\dashv$        | $\dashv$ | -        | $\dashv$ | $\dashv$  | — |
| -          |               | 23       | $\dashv$ | +        | +        | $\dashv$ | $\dashv$ | +        | +  | $\vdash$        |       | 73       | Н               |          | $\dashv$ | +      | +      | +      | ++     |          | ŀ        |          | 123        |          |           | $\dashv$             | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| -          |               | 24       | -        | $\dashv$ | +        | +        | +        | +        | +  | $\vdash$        |       | 74       | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | ╁      | -{       | ŀ        |          | 124        |          |           |                      |                 |          | -        | $\dashv$ | -+        |   |
| -          |               | 25       |          | -        | +        | +        | +        | +        | ╁  | $\vdash$        | ~     | 75       | Н               | $\dashv$ | -        | +      | +      | +      | ╁╌┼    |          | 1        |          | 125        |          |           | $\vdash$             | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| -          |               | 26       |          |          |          |          | $\dashv$ |          | +- | ┢╌              |       | 76       | $\vdash$        | -        |          | +      |        | +      | ₩      | — ∰      | -        |          | 126        | $\dashv$ |           | $\vdash$             | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| -          |               | 27       |          |          |          |          | -        |          | +- | Н               | -     | 77       |                 | $\dashv$ | $\dashv$ | +      | +      | +      | ╁      | -        | -        |          | 127        | $\dashv$ |           | $\vdash\vdash$       | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| -          |               | 28       |          | $\dashv$ | +        | $\dashv$ | $\dashv$ | +        | +  | $\vdash$        |       | 78       | Н               | $\dashv$ | +        | +      | +      | +      | ₩      |          | 1        |          | 128        | -        |           | $\vdash$             |                 |          | $\dashv$ | -+       |           |   |
| }          |               |          | $\vdash$ |          | +        | +        | $\dashv$ | +        | +  |                 |       |          | Н               |          | -+       | +      | +      | +      | ++     |          | ŀ        |          |            |          | _         |                      | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | — |
| -          |               | 29       |          |          | +        | +        | $\dashv$ | +        | +  | Н               |       | 79       |                 | $\vdash$ | $\dashv$ | +      | +      | +      | ++     |          | ŀ        |          | 129        |          |           |                      |                 |          | $\dashv$ | $\dashv$ | $\dashv$  | — |
| -          |               | 30       | -        |          |          |          |          |          |    | $\vdash$        |       | 80       | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | ₩      |          | ⊦        |          | 130        |          |           | $\vdash\vdash$       | $\dashv$        |          |          |          |           | _ |
| -          |               | 31       | -        | -        | +        | +        | -        | -        | +  | $\vdash$        |       | 81       | Н               |          | $\dashv$ | +      | +      | +      | ₩      | <b>—</b> | ŀ        |          | 131        |          |           | $\vdash$             | $\dashv$        |          |          |          | -         |   |
| +          |               | 32       | $\vdash$ | $\dashv$ | +        | +        | $\dashv$ | +        | +  | $\vdash$        |       | 82<br>83 | Н               | -        | +        | +      | +      | +      | ╅╼╂    |          | ŀ        |          | 132        |          |           | $\dashv$             | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | -         | — |
| -          |               | 33       |          | $\dashv$ | -        | +        | -        |          |    | $\vdash$        |       |          | Н               | $\dashv$ | +        | +      | +      | +      | ╂┼     | -        | ŀ        |          | 133        |          |           |                      | $\vdash \vdash$ |          |          |          | $\dashv$  |   |
| -          |               | 34<br>35 | $\vdash$ | $\dashv$ | +        | +        | $\dashv$ | +        | +  | $\vdash$        |       | 84<br>85 | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | ╂      |          | ╠        |          | 134<br>135 | $\vdash$ |           | $\dashv$             | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | -         | — |
| 1          |               |          |          | $\dashv$ | +        | +        | +        |          | +  | ╂─┤             |       |          | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | ╁┼     | - ∷      | ŀ        | $\dashv$ |            |          |           | $\vdash\vdash$       | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | _ |
| }          |               | 36       |          | $\dashv$ | +        | +        | $\dashv$ | +        | +  | Н               |       | 86       | Н               | $\dashv$ | +        | +      | +      | +      | ╂┼     |          | ŀ        |          | 136        |          |           | $\vdash \vdash \mid$ | $\vdash \vdash$ |          |          |          |           |   |
| }          |               | 37       |          | $\dashv$ | +        | $\dashv$ | $\dashv$ | +        | +  | Н               |       | 87       | H               | _        | +        | +      | +      | +      | ╀      | -        | ŀ        |          | 137        |          |           | $\vdash$             |                 |          |          |          | 4         |   |
| ŀ          |               | 38       |          | $\dashv$ | +        | +        | $\dashv$ | $\dashv$ | +  | Н               |       | 88       | Н               | $\dashv$ | $\dashv$ | +      | +      | +      | ╁┼     | - ◎      | ŀ        | $\dashv$ | 138        | $\vdash$ | $\vdash$  | $\dashv$             | $\vdash \vdash$ |          |          |          | 4         |   |
| ŀ          |               | 39       |          | -        | -        | $\dashv$ | $\dashv$ | $\dashv$ | 4- | Н               |       | 89       | Н               | _        | +        | +      | +      | +      | ╀      | - ∭      | 1        |          | 139        | $\dashv$ |           | $\vdash \vdash$      | $\vdash \vdash$ | -        |          | _        | 4         |   |
| -          |               | 40       |          | -        | +        | +        | +        |          | +  | ╂╌┤             |       | 90       | $\vdash$        |          |          | +      | -      | +      | ╀      |          | <u> </u> |          | 140        |          | _         | $\dashv$             | $\vdash \vdash$ | -        |          | _        | 4         |   |
| ŀ          |               | 41       |          | $\dashv$ | +        | +        | +        | +        | +  | Н               |       | 91       | Н               | -        | +        | +      | +      | +      | +      | ₩        | ŀ        |          | 141        |          |           | <b>  </b>            | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | 4         | — |
| -          |               | 42       |          |          |          | +        |          |          |    | H               |       | 92       |                 | -        | -+       | +      | +      | +      | ╀      | - ∭      | L        |          | 142        | $\vdash$ |           | $\vdash \vdash$      | $\vdash$        |          | _        | _        | 4         |   |
| -          |               | 43       |          | -+       | +        | +        | +        | +        | +  | $\vdash$        |       | 93       | $\vdash$        |          | +        | +      | +      |        | ╁╼╂    | -        | ŀ        | $\dashv$ | 143        | $\vdash$ | $\square$ | <b>  </b>            |                 | -4       | $\dashv$ | $\dashv$ | 4         | _ |
| }          |               | 44       | $\dashv$ | $\dashv$ | +        | +        | +        | +        | +  | $\vdash$        |       | 94       | $\vdash$        | $\dashv$ | +        | +      | +      | +      | ┨      |          | -        |          | 144        | $\dashv$ |           |                      | $\square$       | -        | $\dashv$ |          | 4         |   |
| -          |               | 45       | $\vdash$ |          |          | 4        |          | $\dashv$ | +  | $\vdash$        |       | 95       | $\vdash \vdash$ |          | +        | +      | +      | +      | +      | - ®      | -        |          | 145        |          | $\dashv$  | Щ                    |                 | -        | -        | $\dashv$ |           | _ |
| -          |               | 46       |          | -        | -        | 4        | $\dashv$ | +        | +  | Н               | ļ     | 96       |                 |          |          | +      | +      | +      | +      |          | L        |          | 146        | Щ        | _         |                      | $\square$       | _        | -        | -        | -         |   |
| ŀ          |               | 47       |          |          | -        | +        | -        | +        | +  | $\vdash \vdash$ |       | 97       | <b>  </b>       | _        | +        | +      | +      | +      | +      |          | L        |          | 147        | Щ        |           |                      | $\square$       | -        | -        | $\dashv$ | 4         |   |
| ļ          |               | 48       |          | $\dashv$ | +        | +        | +        | +        | +  | ⊢┤              |       | 98       | Н               | 4        | +        | +      | - -    | +-     | ┰      |          | L        |          | 148        | _        |           |                      | _               | _        |          | _        | 4         | _ |
| -          |               | 49       |          | 4        | 4        | 4        | 4        | - -      | +  | Щ               |       | 99       | Щ               | _        |          | -      | $\bot$ | +      | +      | _        | L        |          | 149        |          | $\dashv$  | $\dashv$             | $\sqcup$        | _        | _        | _        | 4         | — |
|            | I             | 50       |          | ı        | - 1      | ı        | ı        | ı        | 1  | 1 1             |       | 100      | i               | i        | - 1      | -      | 1      | ı      | 1      |          | 1        | , I      | 150        | - 1      | ١         | ١                    | l               | ı        | i        | 1        | - 1       |   |